

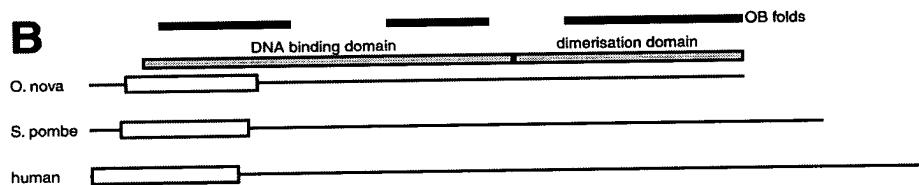
FIGURE 1

A

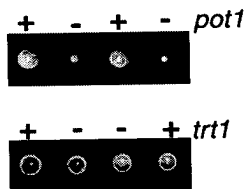
Ec 4 QKAAKKDEHYQMSDLSSIKKEGEEDQVHFYGVVIDASFPPYKG---EKRYVVTCKVADPSSVAK---
 Sm 25 KKREQSTRMKYVELNKASLTS-AEAQHFYGVVIDATFPYKTN--QERYICSLKVVDPSLYLKSQK
 Ot 28 KKAEGSKYVEYVELTKAQLTS-VTAQHFYAVVIDATFPYKTN--QERYICSLKIVDPSLYLKKEK
 On 28 KRSKKGHKYVEYVELAKASLTS-AQPQHFYAVVIDATFPYKTN--QERYICSLKIVDPTLYLKQOK
 Hs 1 MSLVPATNMIYTPLNQLKGGT---IVNVYGVVKFFKPPYLSK--GTDYCSVVTIVDQT-----
 Sp 21 KIGELTFQSISSQELQKNT---IVNLFQIVKDFTPSROSLHGTDKDWVTVMWDPDCDTS---

Ec --GGKLNTVNVVFSQNFEDLPILQRVGDIVRVHRARLQHYNOAKQLNVNMYR-SSWCLFI 121
 Sm GTGDASDYATLVLYAKRFEDLPILIRIGDIIRVHRATLRLYNGQROFNANVFYN-SSWALFS 147
 Ot GTGDNSDYATLVLYAKRFEDLPILIRLGDIIIRIHRATIRLYNGQROFNANVFYS-SSWALFS 150
 On GAGDASDYATLVLYAKRFEDLPILIRAGDIIRVHRATLRLYNGQROFNANVFYS-SSWALFS 150
 Hs -----NVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKEGOGITSSGFA-SLTFECT 109
 Sp -----SIGLOTHLESKQGNLDPVIKQVGQPLLLHQITLRSYDRTOGLSKDQERYALWPDFS 137

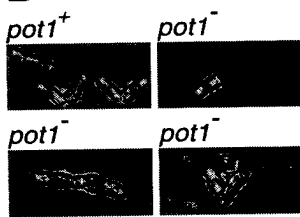
B



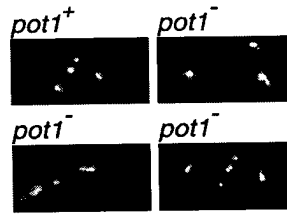
C



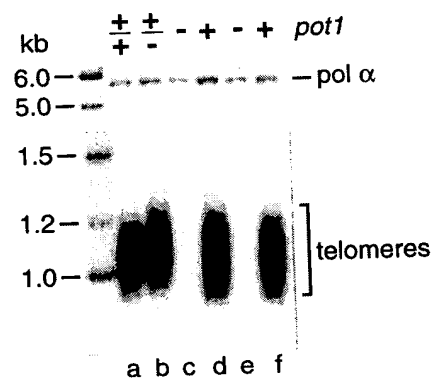
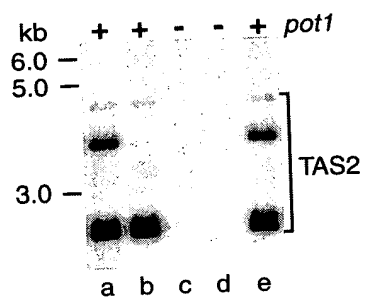
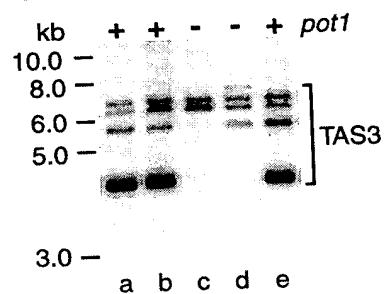
D



E



09616243.032604

A**B****C****FIGURE 2**

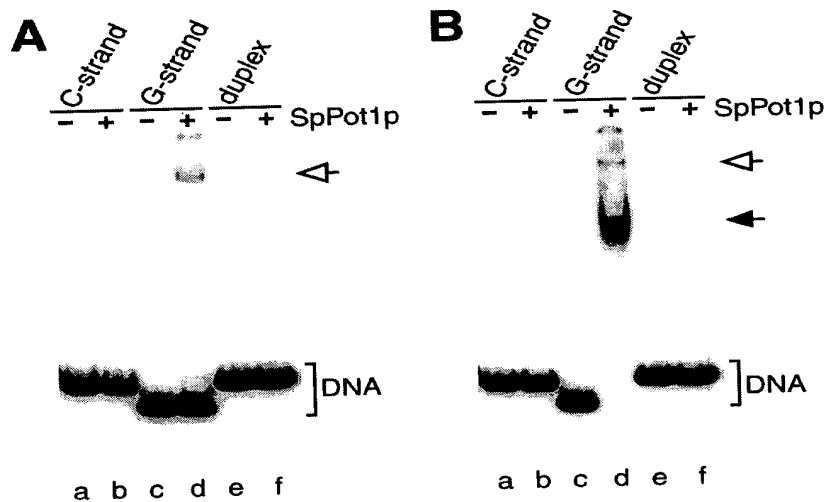


FIGURE 3

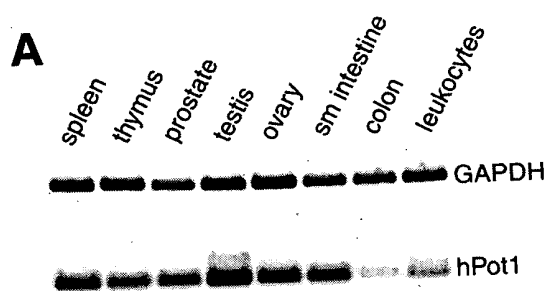


FIGURE 4

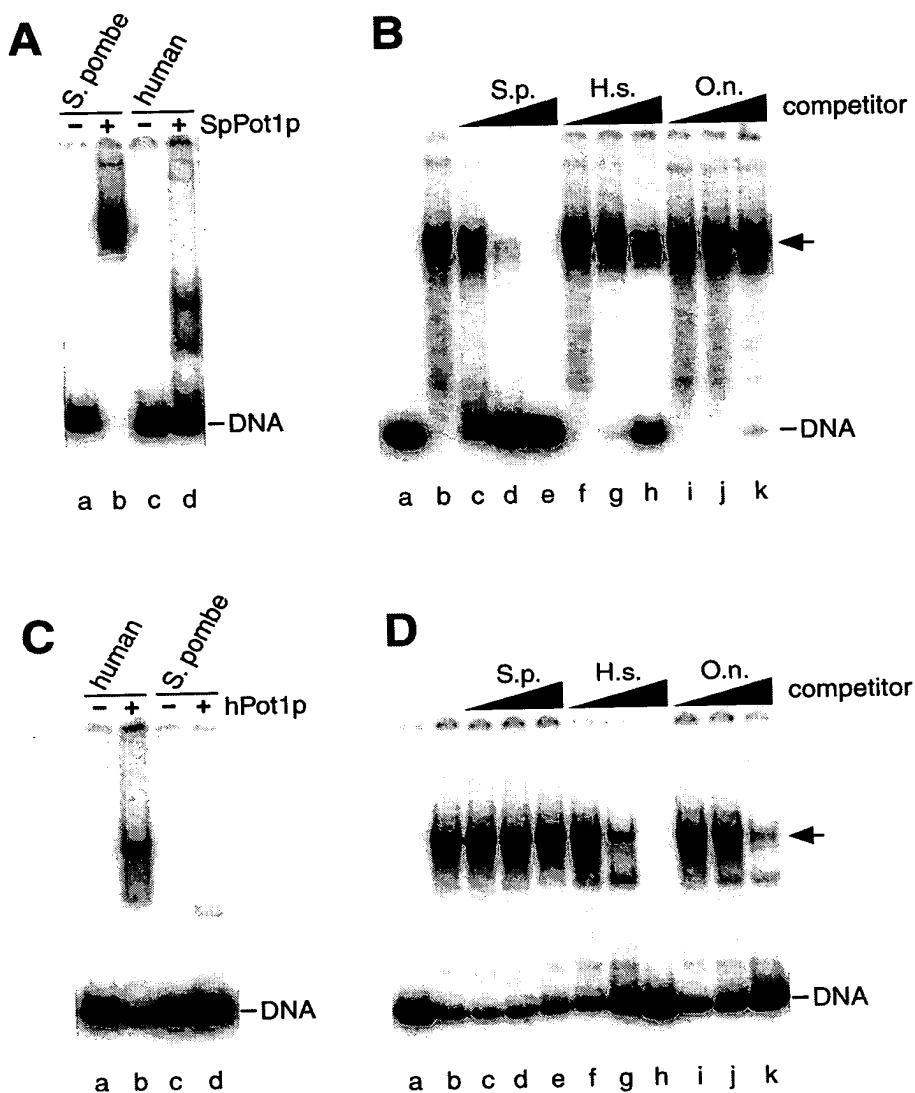


FIGURE 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 6

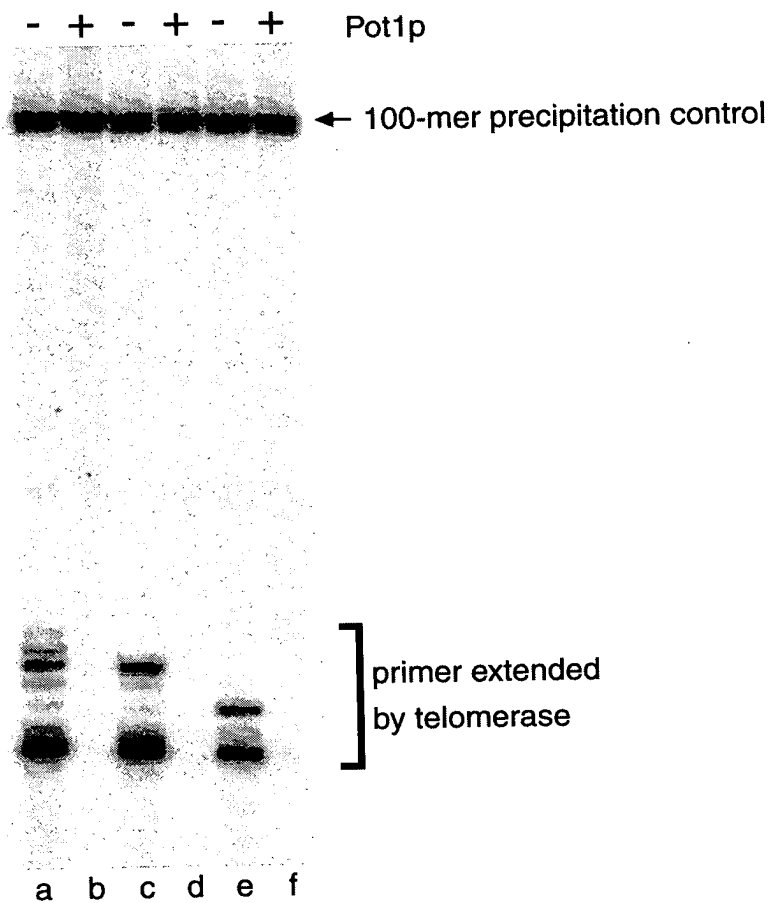


FIGURE 7

09816248-032601

tgatgcaaaa	agccatgctg	tcaaccttaa	aaagtatatc	tatgagtga	gttccatcca	13020
cccctcctta	tcttgagttt	gctgatgata	cgacagcgca	ggccattccc	gatgatgtac	13080
atagcgctat	atctgaagat	cccgatcatc	acaaaagtgt	agctggttct	agtataagag	13140
aatctcggtc	tggttgctgt	ggaaaatcta	ctgctcttac	tcctgaagaa	accagagcaa	13200
tacaggagca	ggcaaaagca	ctgaaaaagg	caggaatgga	ctttatgcta	ttctctttct	13260
ggttacctgc	cctacttttg	ctgagtatct	ttggctctcg	aagctatgct	caaatgatcg	13320
ggggatattt	atatcgctgc	ataattggca	tttaggtttg	acgaacaacc	atgcatgttt	13380
ttttctttct	tttagtttta	ttcttttttg	tagattatga	gcaaaactact	gtcaaaactt	13440
agggtattatg	acaatgaaat	cgtatatatt	atattcgatt	ggatcaattt	tttattatat	13500
tgaaagtaat	tgcttatttt	gtaagttaaa	cttacctggg	tttaaaccga	tagagcaggt	13560
tgggcgcttt	aaaaccaaaa	tagatcggtg	caggtttgct	gtctcgatc	gtgaatgcaa	13620
taccttagga	aagtctttta	ataagctatc	gctttttgca	ttgcattctt	tttctaaact	13680
gaacgttaga	ttagctaaag	taagcgctct	gagttttcga	gatgaaccgc	atacattaaa	13740
atttttaagt	accaattggc	atgaaccggg	atgcgatctg	cttattataa	tactagttaa	13800
tccttgatact	cgcaaaactc	tttcaataat	agcctagcag	aaactgggat	atgtctaaag	13860
ttttacaact	gcgctcagct	taaggacttt	acggcgatcc	atttaatagc	tagccatgaa	13920
cactcataac	ctcaagattg	aggagtgggt	cattcttttg	cttgataaag	aaacaaattc	13980
attattggta	aaataaaact	gaataaccct	tagttcatcc	taggaatttg	aagaagggga	14040
atgatcaagc	ttgaacaagt	aactctcacg	cagtcatttg	aataactctg	aggttcacta	14100
ctttcaaggg	gttgctcttg	tttataaaag	ttttaccaat	tccatttagg	tttctgagaa	14160
aggctaaaaac	tcattttgtg	ttcttaaaag	atatttggat	cattcggttg	tcaagcatgg	14220
gagaggacgt	tattgacagt	cttcagttga	atgagttatt	aaatgctgga	gaatataaga	14280
ttggagttag	atatcaatgg	atttatat	gttttgctaa	caatgaaaaa	ggaacttaca	14340
tttcagtgcca	ttagaagctc	tcaagaatta	caaaaagaaga	atactattgt	caatttgttt	14400
ggaatagtaa	aagattttac	ccctagtcgc	caaagtctac	atggaactaa	gggtatgctt	14460
gcttatcatg	gtggaaacta	tactttttat	ttttccagtc	aagagctaat	aatcatgttt	14520
ttagattggg	taaccaccgt	atatttgtgg	gatccaacat	gtgatacatc	aagcatcgga	14580
ctacagatac	acttggttcag	caaacaggga	aatgatttgc	ctgtaatcaa	gcaggtgggg	14640
caaccgcgtt	tgcttcatac	tgcaacttta	agaagttata	gagacaggac	tcaaggtttg	14700
tctaagggat	aatttcgata	tgcaacttta	ccagactttt	cttctaattc	caaagatact	14760
ctctgtcctc	aaccaatgcc	tcgtttaatg	aaaacgggag	acaaggaaga	gcaattcgcc	14820
ttgttggttaa	ataaaaattg	ggatgagcaa	actaataaac	ataaaaatgg	cgaattattg	14880
agtacctctt	ctgctcgtca	aaatcaaaact	ggattgagtt	acccttctgt	ctctttttct	14940
ctgctatcac	aaataactcc	acatcaacgt	tgtagctttt	acgctcaggt	aattaaact	15000
tggtcacagt	ataaaaactt	tactctttat	gtcactgatt	atagcgaaaa	tgagcttttt	15060
tttccaatgt	ctccgtatac	tagctcctcg	agatggaggg	gcccttttgg	tcggttttct	15120
ataaggtgca	ttttatggga	tgagcacgac	ttttactgcc	gcaactacat	ttaaagaagg	15180
gactatgtgg	gggattcagc	aaaacggtat	aaaattgata	accttggtta	tctggaatgt	15240
atacttcata	taaacgaaat	taagtacagt	aaaaggcctt	tagaaaaagt	cgattcgga	15300
gaacccgaac	cagtaatcga	gaaactcagt	caaaagcctt	atgttcagaa	ttgccaaaat	15360
gggtagaag	taaagcaaac	ttctgttaat	gaaattacgg	aatcggaaaa	tcctttttat	15420
gccccatga	aattgactac	tatttctacc	atacttcata	cccatgtcat	aatgaacct	15480
gctagtttaa	aacataggct	acgcgttcag	gtggtagatt	caactttgca	gaatcttct	15540
aaaccgagga	tgctatctca	accacatctt	tcgtatgttt	tttgccaaa	gagtttgacg	15600
cagtttgctg	cgaatgtgac	tttaccggtc	atattttttg	gcatgtttgc	cttgctcgta	15660
agggatgtat	caaaaatcca	accttgcaat	ttagctgac	aaacacccat	tgcggaactt	15720
attaacagct	gattatttct	gatttggggg	aacttggaag	accatcaatc	gactcttcag	15780
tcgaagggtg	aatcgccaac	tctggctgct	gaagatgttg	gactattgtg	gcatacacata	15840
tatgtcacaag	aatacattcc	tgtaattggg	aacaccaaag	acaatattta	gatttgatata	15900
cttcagaagc	gctggcgagg	atttggcacg	aaaattgttt	gtactaagga	tttgactttt	15960
tacaataatg	aaatgcttac	tttataaagc	gagcgaattt	catcaacttc	atacaaaact	16020
aagctctata	ttgggagaat	attgcttaga	gttttgatgt	atggtgggta	aatttaagga	16080
ggggaaacgt	gaaatatcta	aataaggatt	gcatcatcat	cactttctac	aaaacacaga	16140
tagaaattaa	ttacaaaaat	aagtgttgag	tgaataatat	gaggggtggc	catctaagca	16200
ggcttttgct	gatgctcatc	ggcactgcca	tttgagagag	ggttattctc	gtcaacagcg	16260
aatagagctt	gatgcagatg	caaaactatc	cgcgaacgac	tatcagtgta	tgagagatga	16320
ggacgctcat	gatgcagatg	ctcactcatt	aaaacaagaa	tttgaccgta	ctcaaaactc	16380
tctacatctt	aaatggtaag	catcaagatc	taatagtcca	tgccaaaaca	ggtaggacgc	16440
cacaagtaca	gaagtgtcca	gtattttaag	taagcgacaa	gaatacggag	atcacgaatt	16500
aggaacccaaa	tggtgctgac	aatcggaagc	gtttgcttac	agaggggtgat	taaaaagaca	16560
aaaatggcat	tatacatctg	agccttaaca	aacatagcga	ggctaataga	caaagatgac	16620
gtattattta	aagccaatac	aatccaaagg	ttattagatg	tttgacactt	acgaagaaga	16680
ggagcgccaa	acaaaatgac	gaactgcaaa	ccagcaagaa			16740
aagaaaaagc	atgaagaaac					16800

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 8A

gattgaggagtgggtcattctttgcttgataaagaacaaattcattattggtaaaataaaactgaataacccttagttcatccttaggaattgaagaagggg
aatgatcaagcttgaacaagtaactctcacgcagtcattgaataatctgaagggttcacactttcaaggggttgcttggtttaaaaagctttaccaattcca
tttaggtttctgagaaaggctaaaactcattgttggttcttaaggatattggatcattcgtgatcaagcATGGGAGAGGACGTTATTGA
CAGTCTTCAGTTGAATGAGTTATTAATGCTGGAGAATATAAGATTGGAGAACTTACATTT
CAGTCCATTAGAAGCTCTCAAGAATTACAAAAGAAGAATACTATTGTCAATTTGTTTGAA
TAGTAAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGGAACATAAGGATTGGGTAACCA
CCGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACACTTGTT
CAGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCA
TCAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTGCA
TATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCCTCAACCAATGCC
TCGTTTAATGAAAACGGGAGACAAGGAAGAGCAATTCGCCTTGTTGTTAAATAAAATTTG
GGATGAGCAAATAATAAACATAAAAAATGGCGAATTATTGAGTACCTTCTGCTCGTCA
AATCAAACCTGGATTGAGTTACCCTTCTGTCTCTTTTTCTGCTATCACAAATAACTCCACA
TCAACGTTGTAGCTTTTACGCTCAGGTAATTAACAACTGGTACAGTGATAAACTTTACT
CTTTATGTCACTGATTATACGGAATAATGAGCTTTTTTTTCCAATGTCTCCGTATACTAGCTC
CTCGAGATGGAGGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCAC
GACTTTTACTGCCGCAACTACATTAAGAAGGTGACTATGTGGTTATGAAAAATGTGCGAA
CCAAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTGAGCAAAACGTTA
TAATATGAGTATAGAAAAAGTCGATTCGGAAGAACCCGAACATAACGAAATTAAGTCACG
TAAAAGGCTTTATGTTTCAAGATTGCCAAAATGGTATAGAAGCAGTAATCGAGAACTCAG
TCAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAGCAAACTTCTGTAAAT
GAAATTACGGCCCATGTCATAAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCA
TACTTCATGCACCTTTGCAGAATCTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGT
GGTAGATTTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCG
TATGTTTGGATGTTTGCTTGTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATT
TTTTGATTCTGACGCTGCGGAACCTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCT
GATCACCCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGAACTTGG
AAGAACGCATTGAGCATCATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATG
TTGAAACACCATGGTTTGATATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAA
AGACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTTGGCACGAAAATTGTT
TGActattgtgataaaaacttacaataatgaatgcttacggaagaacataagaaaaacaattttaaataggaagctctatattgggagaat
ttataaagcagcgaattgtactaaggaaaaacacaga

091624 032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 8B

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV
 KDFTPSRQSLHGTDWVTTVYLWDPTCDTSSIGLQIHLFSKQGNDLPVI
 KQVGQPLLLHQITLRSYRDRTQGLSKDQFRYALWPDFSSNSKDTLCPQP
 MPRLMKTGDKEEQFALLLNKIWDEQTNKHKNGELLSTSSARQNQTGLSY
 PSVSFSLLSQITPHQRCSFYAQVIKTWYSDKNFTLYVTDYTENELFFPM
 SPYTSSSRWRGPFGRFSIRCILWDEHDFYCRNYIKEGDYVVMKNVRTKI
 DHLGYLECILHGDSAKRYNMSIEKVDSEEPELNEIKSRKRLYVQNCQNG
 IEAVIEKLSQSQQSENPFIAHELKQTSVNEITAHVINEPASLKLTTIST
 ILHAPLQNLLKPRKHRLRVQVDFWPKSLTQFAVLSQPPSSYVWMFALL
 VRDVSNVTLPVIFFDSDAAELINSSKIQPCNLADHPQMTLQLKERLFLI
 WGNLEERIQHHISKGESPTLAAEDVETPWFDIYVKEYIPVIGNTKDHQS
 LTFLQKRWRGFGTKIV

00016248-032604

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

FIGURE 8C

ATGGGAGAGGACGTTATTGACAGTCTTCAGTTGAATGAGTTATTAATGCTGGAGAATATA
 AGATTGGAGAACTTACATTTTCAGTCCATTAGAAGCTCTCAAGAATTACAAAAGAAGAATA
 CTATTGTCAATTTGTTTGGGAATAGTAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGG
 AACTAAGGgtatgcttgcttatcatggtggaactatactttttttttccagtcaagagctaataatcatgttttagATTGGGTAACCAC
 CGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACTTGTTC
 AGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCAT
 CAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTTCGAT
 ATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCTCAACCAATGCCT
 CGTTTAATGAAAACGGGAGACAAGGAAGAGCAATTTCGCCTTGTGTTAAATAAAAATTTGG
 GATGAGCAAATAAATAACATAAAAAATGGCGAATTATTGAGTACCTCTTCTGCTCGTCAAA
 ATCAAACCTGGATTGAGTTACCCTTCTGTCTCTTTTCTCTGCTATCACAAATAACTCCACAT
 CAACGTTGTAGCTTTTACGCTCAGGTAATTAAGCTTGGTACAGTGATAAAAACTTTACTC
 TTTATGTCACTGATTATACGGAAAATGAGCTTTTTTTTCCAATGTCTCCGTATACTAGCTCC
 TCGAGATGGAGGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCACG
 ACTTTTACTGCCGCAACTACATTAAGAAGGTGACTATGTGGTTATGAAAAATGTGCGAAC
 CAAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTCAGCAAAACGTTAT
 AATATGAGTATAGAAAAAGTCGATTTCGGAAGAACCCGAACATAACGAAATTAAGTCACGT
 AAAAGGCTTTATGTTTCAGAATTGCCAAAATGGTATAGAAGCAGTAATCGAGAAACTCAGT
 CAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAGCAAACCTCTGTAAATG
 AAATTACGGCCCATGTCATAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCAT
 ACTTCATGCACCTTTGCAGAATCTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGTG
 GTAGATTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCGT
 ATGTTTGGATGTTTGCCTTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATTT
 TTTGATTCTGACGCTGCGGAACTTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCTG
 ATCACCCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGGAACCTTGA
 AGAACGCATTACGATCACATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATGT
 TGAACACCATGGTTTGATATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAAA
 GACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTGGCACGAAAATTGTTT
 GA

09816248-032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 8D

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKNTIVNLFQIV
 KDFTPSRQSLHGTKGMLAYHGGNYTFYFSSQELIIMFLDWVTTVYLWDP
 TCDTSSIGLQIHLSKQGNLDPVIKQVGQPLLLHQITLRSYRDRTQGLS
 KDQFRYALWPDFSSNSKDTLCPQMPRLMKTGDKEEQFALLLNKIWDEQ
 TNKHKNGELLSTSSARQNQTGLSYPSVSFSLLSQITPHQRCSFYAQVIK
 TWYSDKNFTLYVTDYTENELFFPMSPYTSSSRWRGPFGRFSIRCILWDE
 HDFYCRNYIKEGDYVVMKNVRTKIDHLGYLECILHGDSAKRYNMSIEKV
 DSEEPELNEIKSRKRLYVQNCQNGIEAVIEKLSQSQQSENPFIAHELKQ
 TSVNEITAHVINEPASLKLTTISTILHAPLQNLLKPRKHRLRVQVVDWF
 PKSLTQFAVLSQPPSSYVWMFALLVRDVSNVTLPVIFDSDAAELINSS
 KIQPCNLADHPQMTLQLKERLFLIWGNLEERIQHHISKGESPTLAAEDV
 ETPWFDIYVKEYIPVIGNTKDHQSLTFLQKRWRGFGTKIV

00016243 032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9A

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTTCTTTAAGCCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAACTAACTTGCCTGCTC
 TTTAGTGGAAGTATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTTCGCTTTC
 ACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCCTATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTTGTGTGATGTTAGCCAATGCAGTATTTTG
 ACCTGACTTGTGAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAATCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTATGGAGGTACAGTTACGGTTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTTCAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG
 AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA
 GGACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA
 AATTGAGGTCATATAAGCCCAGAAAGACTATTTAGTCTGTAAACTTCATTGCCCTAAATG
 TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA
 ACTAAAAACCCAGTTGTCAAGTTACAAAATACATCATTATATGATTCAAAAATCTGGACCA
 CTAATAATCAAAAAGGACGAAAAGTAGCAGTTTCTTTGTGAAAAATAATGGTATTCTCC
 CGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAACT
 CTCGAACAAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACCTTTG
 GACCTTTCAGCACCATTTCTTATACAAGGAACAATACATCACTATGGATGTAAACAGTGTT
 CTAGTTTGAGATCCATACAAAATCTAAATTCCTGTTGATAAAACATCGTGGATTCTTCA
 TTCTGTGGCAGAAGCACTGGGTATTGTACCCCTCCAATATGTGTTTGTATGACCTTTACA
 CTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATGGATTCTGACAAATTCTTCCAGA
 TTCCAGCATCAGAAGTTCTGATGGATGATGACCTTCAGAAAAGTGTGGATATGATCATGGA
 TATGTTTTGTCCTCCAGGAATAAAAATTGATGCATATCCGTGGTTGGAATGCTTCATCAAG
 TCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTGGACACCACAG
 TTGCAGAAGATGTAATCTAA

0981648-032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9B

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSPWRV
LIQDLVLEGLDLSHIHLQNLTIDILVYDNHVVHVARSLKVGSLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPSGVSLSYEVEERCQQLSATILT DHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEV
HEGDLDIIFQDGATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAVHFKV
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDL
PFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQ
YVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVD
MFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

09816248-032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9C

ATGTCTTTGGTTCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTTCTTTAAGCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAACTAACTTGCCTGCTC
 TTTAGTGGAAGTATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTTCGCTTTC
 ACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCCTATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTTCAGCCAATGCAGTATTTTG
 ACCTGACTTGTCTAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTAAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTCATGTGGCAAGATCTCTGAAGGTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAACCTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTCATGGAGGTACCGTTACGGTTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTTCAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAATGGAGTCTCGCTTCGTCCTCCAG
GCTGGAGTTCAGTGGCACGGTCTCGGCTCATTGCAGCCTCCACCTCCTGAGTTCAAGCTTC
TCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCTCTGGATCAGTATCATTATACGAG
 GTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGAGG
 ACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAAAA
 TTGAGGTATATAAGCCCAGAAGACTATTTTCAGTCTGTAAACTTCATTGCCCTAAATGTC
 ATTTGCTGCAAGAAGTTCCACA

002.540614.4

APPROVED	C.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9D

MSLV PATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLT FEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLCLKCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFP SWRV
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSF PNGVSLRPPGWSSVARSLIAASTS

00016248 032501
T0920 0429T860

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9E

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA
 CAATTGTCAATGTCTATGGTGTGTGAAGTTCCTTAAGCCCCATATCTAAGCAAAGGAAC
 TGATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAACTAACTTGCTGCTC
 TTTAGTGGAAGTATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTGCTTTT
 ACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG
 CATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCCATCATACCTCGCACTTCAAGCAAGTA
 TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT
 CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTTCAGCCAATGCAGTATTTTG
 ACCTGACTTTGTCAGCTCTTGGGCAAAGCAGAAAGTGGACGGAGCATCATTTCTTCTAAAGGT
 ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTT
 GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG
 ATAACCATGTTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT
 TCATACCAAAGTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT
 CTTTCATGGAGGTACAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT
 GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTCAGAT
 GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG
 AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA
 GGACACCACTATGTGCCATTTTGAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA
 AATTGAGGTCATATAAGCCCAGAAGACTATTTTCAGTCTGTAACTTTCATTGCCCTAAATG
 TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA
 ACTAAAACCCCAAGTGTCAAGCTACAAAATACATCATTATATGATTCAAAAATCTGGACC
 ACTAAAAATCAAAAAGGACGAAAAGTAGCAGTTTCATTTGTGAAAAATAATGGTATTCTC
 CCGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAAC
 TCTCGAACAAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACCTTT
 GGACCTTTCAGCACCATTTCTTATACAAGGAACAATACATCACTATGGCACTGGGTATTGT
 ACCCTCCAATATGTGTTTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAA
 GCCTATCTCATGGATTCTGACAAATTCTTCCAGATTCCAGCATCAGAAGTTCTGATGGATG
 ATGACCTTCAGAAAAGTGTGGATATGATCATGGATATGTTTGTCTCCAGGAATAAAAAAT
 TGATGCATATCCGTGGTTGGAATGCTTCATCAAGTCATACAATGTCACAAATGGAACAGAT
 AATCAAATTTGCTATCAGATTTTGGACACCACAGTTGCAGAAGATGTAATCTAA

00016248.032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 9F

MSLV PATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLT FEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSPWRV
LIQDLVLEGLDL SHIHLRLQNLTIDILVYDNHVVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPSGVSLSYEVEERCQQLSATILTDHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEV
HEGDLDIIFQDGATKTPDVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKN
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDL
SA PFLIQGTIHHYGTGYCTPPICVCYDLYT

00816248-032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 10F

agagtatttttttttaaatggtaaactgcttttttttttttttagATGCATATCCGTGGTTGGAATGCTTCATCAAG
TCATACAATGTCACAAATGGAACAGATAAATCAAATTTGCTATCAGATTTTTGACACCACAGT
TGCAGAAGATGTAATCTAAAtattgccatccaatttagcacataaaaatgtgccactcacctccctgttgagcttctttctgacctga
gtttgtatcagcaatgttgatgatgttagcatgggtatgggattagaaaatgtccttaccttaaatctctggctttactgggtgcaaggtaaataatggcta
tggattttgtttgctttctgtttgtttgtacaaagagacctgcttaacaagtactgctgagataagtgtctgatcaagctacagtgtactttaagtagaaat
ggcaaagtgtctgttgggtgctgatactgatgatttaggataaattcattctttaaactgttaatacatggtttattgtctgttctctccaggatagtaga
gatttctctatttcacctcaacctaaataaaagtggcagatttataatgttaatgacttaattatccttttctaagtctcatgtaaaatgcccgtattacaac
ttacaactaattgaatgagatgttaacttagtaaaatagtttgattttacctgacagtgtttgtcaaatttaaaatcatgaatttcaattttatacaaacatttat
atatatatagatttgtgtatgttattgccaagacagataaaattacctggttaataattagtgaagaataaaatagtgacacatttcaactgtttcatttat
ttgccctaagtgtgagctgaaaaatgatatgaggcaagaatcgaatagggtgtggcaatgcagcagatgttagggctgtctacatcccagggtactgtgc
taagcactaaacatgtattgtatcctcacagcaacctattttccgataagaaatctgaggctgtgattgataagctgactgactaagttcacacagttttaa
aagctagagtctgtgccttaattcacataatctctattcagagcctgtactgttaaccactcaaggattctggaacagaagctaacagttttctgcaacgagt
ctttgacttaaacatctgaaataacattggaatagattataagaggagtcagtgtgttttctatagtttcaaaatacttttaacatcttattgtcaaaaagattg
gataactgactttctgtcataataactctaaattctagttcctgagtacattaacacatcttcttacctaactaccaatgtccccatcatcgacttatcagc
ttgttgagacaatgagaaagactgattttatttcaagaatatagactcttggttcaaaacattttcaggaaaaatattttaaaccctacagtgaacagggtg
tgttccgtgttgatgatgtgctcaggatacaagggtgaataaacatttttctgccttcagggaagccctcaatctagaagagtagagggtccaaagggtgcc
atatgtcacactgtgagcctgcaagatctccacgttaacaaaggaaaactcttctcatgaatcttcatgatgatagg

09816243-032601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 10G

Alternative forms of hPot1

partial genomic DNA lacking N-terminus

5	6	7	8	9	10	11	12	13+3'UTR
(119)	(56)	(156)	(205)	(135)	(88)	(91)	(105)	(112+702)

splice variant #1: 72kDa protein lacking exon 5

splice variant #3: 38kDa protein containing exon 5

splice variant #4: 58kDa protein lacking exons 5 and 10